

Attorney Docket No.: LUKP:122US
U.S. Patent Application No.: 10/711,828
Reply to Office Action of July 24, 2007
Date: August 31, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A method for determining the direction of movement of an electric motor of a transmission actuating mechanism for the select and/or shift operation, in which at least one signal of the motor is detected, wherein the direction of movement of the motor is validated on the basis of current flow direction by at least one detected signal, and wherein in a motor that is de-energized and stationary, the starting current is compared to the directional signal of a sensor.
2. (canceled)
3. (previously presented) The method as described in Claim 1, wherein, if the detected directional signal for a determined time interval does not agree with the aforementioned flow direction of the electric motor, a fault regarding the direction of movement is recognized.
4. (previously presented) The method as described in Claim 3, wherein in the presence of a fault at least one output stage of the transmission actuating mechanism is switched off.
5. (previously presented) The method as described in Claim 1, wherein, in a brushless electric motor, the direction of movement is determined from the sequence of the frequency level for the detection of different frequency signals by multiple sensors.
6. (previously presented) The method as described in Claim 5, wherein the starting current is validated via the frequency signals of the sensors starting from an electric motor that is de-energized and stationary.

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7. (previously presented) The method as described in Claim 6, wherein a check is made of whether the signal edge received as the next one does not correspond to the predetermined flow direction.
8. (previously presented) The method as described in Claim 7, wherein, when the signal edge does not correspond, a fault with respect to direction of movement is recognized.
9. (previously presented) The method as described in Claim 8, wherein, when a fault is recognized, at least one output stage of the transmission actuating mechanism is switched off.
10. (previously presented) The method as described in Claim 1, wherein at least one Hall sensor is used as the sensor.
11. (Currently Amended) A shift motor of a transmission actuator comprising at least one means for validating the direction of movement of the motor, wherein said means measures a detected signal current flow, and wherein said means further comprises at least one Hall sensor.
12. (canceled)